

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

NOTICE OF ALLOWANCE AND FEE(S) DUE

22204

07/30/2002

NIXON PEABODY, LLP 8180 GREENSBORO DRIVE **SUITE 800** MCLEAN, VA 22102

EXAMINER BERRY, RENEE R **CLASS-SUBCLASS**

ART UNIT 2818

438-784000

DATE MAILED: 07/30/2002

A	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/466,828	12/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635

TITLE OF INVENTION: INSULATING FILM AND METHOD OF PRODUCING SEMICONDUCTOR DEVICE

1	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
١	nonprovisional	NO	\$0	\$0	\$0	10/30/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY
- A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

maintenance fee notification	below or directed otherwis	e in Block 1, by (a) sp	pecifying a new co	rrespondence add	dress; and/or (b) indicating a sep	arate "FEE ADDRESS" fo	
	590 07/30/2002	ip with any corrections or use	· Block 1)	Fee(s) Transm	ate of mailing can only be used for ittal. This certificate cannot papers. Each additional paper,	or domestic mailings of the be used for any other	
NIXON PEABO	DY, LLP			accompanying formal drawing,	papers. Each additional paper, s must have its own certificate of n	such as an assignment or nailing or transmission.	
8180 GREENSBO SUITE 800 MCLEAN, VA 22	RO DRIVE			I hereby certify United States Po envelope addres	Certificate of Mailing or Tran. that this Fee(s) Transmittal is setal Service with sufficient posta sed to the Box Issue Fee address EUSPTO, on the date indicated b	smission being deposited with the ge for first class mail in an above, or being facsimile	
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APPLICATION NO.	FILING DATE	FIR	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/466,828	12/20/1999		HUNPEI YAMAZA		0756-2077	1635	
TITLE OF INVENTION: IN		ALTHOD OF PRODU	CING SEMICONL		C		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$0	·-	\$0	\$0	10/30/2002	
EXAMIN	VER	ART UNIT	CLASS-SUBCL	ASS		•	
BERRY, RE		2818	438-78400				
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CFR 1.363).	ce address or indication of '	ree Address" (37		on the patent from to 3 registered p			
☐ Change of corresponde Address form PTO/SB/12	ence address (or Change of (22) attached.	Correspondence	or agents OR, a	alternatively, (2) ving as a memb	the name of a er a registered		
	on (or "Fee Address" Indica or more recent) attached. Us		attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO E	E PRINTED ON THE	PATENT (print or	type)	······································	-	
PLEASE NOTE: Unless ar been previously submitted (A) NAME OF ASSIGNEE	to the USPIO or is being su	bmitted under separate	rill appear on the pre- e cover. Completion ESIDENCE: (CITY	of this form is N	f assignee data is only appropriate OT a substitute for filing an assig COUNTRY)	e when an assignment has nment.	
Please check the appropriate	ancianno estacom or estaco	aina (will mat be maiate.	d 4L4	m to attack according			
4a. The following fee(s) are a		=	u on the patent) yment of Fee(s):	U individual	□ corporation or other private gr	oup entity U government	
☐ Issue Fee		<u>_</u>	neck in the amount	of the fee(s) is end	closed.	· · ·	
☐ Publication Fee		☐ Payr	ment by credit card	Form PTO-2038	is attached.		
☐ Advance Order - # of Co	opies	☐ The Deposi	Commissioner is h	ereby authorized b	by charge the required fee(s), or concept, (enclose an extra copy of this f	redit any overpayment, to	
Commissioner for Patents is	requested to apply the Issue				usly paid issue fee to the application		
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	Publication Fee (if require registered attorney or agords of the United States Page 1	ed) will not be accept ent; or the assignee of tent and Trademark Of	ed from anyone r other party in ffice.				
This collection of informat obtain or retain a benefit b application. Confidentiality estimated to take 12 minute completed application form case. Any comments on t suggestions for reducing the Patent and Trademark Offic NOT SEND FEES OR Commissioner for Patents.	to the LISPTO Time will	ithering, preparing, and	a submitting the				

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United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.usplo.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/466,828		12/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635
22204	7590	07/30/2002		EXAMINE	ER
NIXON PEAR	BODY, LI	LP		BERRY, RE	NEE R
8180 GREENS SUITE 800	BORO DR	IVE		ART UNIT	PAPER NUMBER
MCLEAN, VA				2818	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
UNITED STATES			DATE MAILED: 07/30/2002		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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09/466,828	12/20/1999		SHUNPEI YAMAZAKI	0756-2077	1635
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8180 GREENS	BORO DR	IVE			
SUITE 800				ART UNIT	PAPER NUMBER
MCLEAN, VA	22102			2818	
UNITED STAT	res			2810	

DATE MAILED: 07/30/2002

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

Applicant(s)

09/466,828

Yamazaki et al. ه

Examiner

Art Unit 2818



Renee Berry -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to May 15, 2002 2. X The allowed claim(s) is/are 1-29 3. X The drawings filed on _____ Dec. 20, 1999 ____ are accepted by the Examiner. 4. X Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) X All b) Some* c) None of the: 1. X Certified copies of the priority documents have been received. 2. X Certified copies of the priority documents have been received in Application No. _____08/198,054 3.
Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) \square The translation of the foreign language provisional application has been received. 6. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT 7.

A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 8.

CORRECTED DRAWINGS must be submitted. (a) \Box including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. _____. (b) \square including changes required by the proposed drawing correction filed ______, which has been approved by the examiner. (c) including changes required by the attached Examiner's Amendment/Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 9.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1 Notice of References Cited (PTO-892) 2 Notice of Informal Patent Application (PTO-152) 3 Notice of Draftsperson's Patent Drawing Review (PTO-948) 4 Interview Summary (PTO-413), Paper No. _ 6 Examiner's Amendment/Comment 7 Examiner's Comment Regarding Requirement for Deposit of Biological 8 Examiner's Statement of Reasons for Allowance Material 9 Other

> SON L. MAI PRIMARY EXAMINER

Page 2

Art Unit: 2818

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: There is no prior art

of record that teaches or suggests a method of forming an insulating film having silicon oxide

formed over a glass substrate, wherein the insulating film includes halogen at a concentration of

 5×10^{20} cm⁻³ or less and carbon at a concentration of 5×10^{19} cm⁻³ or less which are detected by

second ion mass spectroscopy.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to R. R. Berry whose telephone number is (703) 305-4544.

Jy/L

SON L. MAI PRIMARY EXAMINER

Andund RRB

July 29, 2002